

# CEMENT JOB REPORT



<b>CUSTOMER</b> EnCana Oil & Gas USA Inc		<b>DATE</b> 23-JAN-11	<b>F.R. #</b> 1001750577		<b>SERV. SUPV.</b> RYAN SULLIVAN							
<b>LEASE &amp; WELL NAME</b> RINN EAST #24-15 - API 05123324680000		<b>LOCATION</b> Sec.15 - T2N - R68W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado							
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> Ensign 122			<b>TYPE OF JOB</b> Long String							
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>			<b>PHYSICAL SLURRY PROPERTIES</b>							
Latch Down Plug & Assembly, 4-1/2		Stage Cementing Tool 4-1/2 - 8rd Centralizer, with Pins, 4-1/2 in			<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
<b>MATERIALS FURNISHED BY BJ</b>					—	—	—	—	—	—	—	
50:50 (POZ:G) + Additives					240	13.5	1.71	8.30	02:01	73.1	47.30	
Claytreat Water					0	8.4	0	0	00:00	129.8	—	
Fresh Water					0	8.34	0	0	00:00	40	—	
Fresh Water					0	8.34	0	0	00:00	20	—	
50:50 (Poz:G) + Additives					0	12.5	2.00	10.90	03:00	0	0	
Claytreat Water					0	8.4	0	0	00:00	84	—	
Class "G" Cement					50	15.8	1.15	5.00	02:00	10.2	5.94	
Mud Clean I					0	8.34	0	0	00:00	20	—	
Surfactant Wash					0	8.34	0	0	00:00	20	—	
Mud Clean I					0	8.34	0	0	00:00	20	—	
Surfactant Wash					0	8.34	0	0	00:00	20	—	
Premium Lite Cement					225	12.5	2	10.9	02:31	80.2	58.43	
Available Mix Water <u>200</u> Bbl.		Available Displ. Fluid <u>250</u> Bbl.		<b>TOTAL</b>				517.3	111.67			
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>				<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>SIZE</b>	<b>WGT.</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>		
7.875	0	8385	4.5	11.6	CSG	8395	N-80	8375	8350	5406		
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>		
<b>SIZE</b>	<b>WGT</b>	<b>TYPE</b>	<b>DEPTH</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
8.625	24	CSG	800	No packer		0	0	0	4.5	8RD	WATER BASED MU	9.6
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>	
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>		
84	BBLS	Claytreat Water	8.4	506	0	0	0	0	6224	3000	Rig	
		Claytreat Water	8.4									
<b>Circulation Prior to Job</b>												
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1				Circulation Rate: 7 BPM				
Mud Density In: 9.6 LBS/GAL				Mud Density Out: 9.6 LBS/GAL				PV & YP Mud In: 0		PV & YP Mud Out: 0		
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				Units:				Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				
<b>Displacement And Mud Removal</b>												
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>				Amount Bled Back After Job: 1 BBLS								
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL				Method Used to Verify Returns: Visually								
Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES								
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE												
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 32				Type: <input checked="" type="checkbox"/> BOW <input type="checkbox"/> RIGID				
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD												
<b>Plugs</b>												
Number of Attempts by BJ: 0				Competition: 0				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Quantity:
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES								
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Top of Plug: 0 FT				Bottom of Plug: 0 FT				
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>												
BLOCK SQUEEZE <input type="checkbox"/>		SHOE SQUEEZE <input type="checkbox"/>		TOP OF LINER SQUEEZE <input type="checkbox"/>		PLANNED <input type="checkbox"/>		UNPLANNED <input checked="" type="checkbox"/>				
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		PSI Applied: 0		Fluid Weight: 0 LBS/GAL						

## CEMENT JOB REPORT



### Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes

### Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
Plug did not hold on first stage. Pressured up to 1000 psi, shut-in, and monitored pressure for 1 hour.

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
None

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW	CO. REP.
	PIPE	ANNULUS				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
						TEST LINES	4148 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
11:15	0	0	0	0	N/A	Pre rig up meeting	
12:10	0	0	0	0	N/A	Pre job safety meeting	
12:22	1444	0	0	0	WATER	Low pressure test	
12:23	4148	0	0	0	WATER	High pressure test	
12:29	633	0	7.2	20	MUD CLEAN	Mud clean I	
12:33	675	0	7.2	20	SURFACTANT	Surfactant wash	
12:37	593	0	6	40	WATER	Freshwater	
12:44	803	0	6.2	73	CEMENT	Batch-up, weigh, and pump 240 sx of (50:50) Poz:G + 0.6% FL-52 + 3% Bentonite + 0.1% SM + 20% S-8 @ 13.5 ppg	
12:57	0	0	0	0	N/A	Drop plug & wash-up pumps and lines	
13:04	98	0	7.2	76	CT-3C	Displace	
13:16	0	0	2.3	14	CT-3C	Slow rate to pump through stage tool	
13:27	234	0	5	33	CT-3C	Rate change	
13:29	779	0	2.5	5	CT-3C	Rate change	
13:31	841	0	2.5	128	CT-3C	Bump plug	
13:31	2207	0	2.5	0	N/A	Plug down at 128 bbis	
13:37	2610	0	2	1	CT-3C	Plug did not hold, bumped again per customer request	
13:50	2621	0	2.3	1	CT-3C	Plug did not hold, bumped again per customer request	
13:58	1195	0	1	.6	CT-3C	Shut in and monitored pressure for one hour	
15:05	0	0	0	0	N/A	Drop bomb, wait 35 minutes	
15:40	444	0	2.1	10	WATER	Open DV tool & establish circulation	
15:45	0	0	0	0	N/A	Switch over to rig to circulate well	
17:28	722	0	0	0	WATER	Low pressure test	
17:29	4490	0	0	0	WATER	High pressure test	
17:31	455	0	7.2	20	MUD CLEAN	Mud clean I	
17:35	467	0	7.2	20	SURFACTANT	Surfactant wash	
17:38	489	0	7.2	20	WATER	Freshwater	
17:46	325	0	7.2	83	CEMENT	Batch-up & pump 225 sx of PLC + 0.2% CD-32 + 0.7% FL-52 + 0.2% ASA-301 + 6% Bentonite + 3 lbs/sk CSE-2 @ 12.5 ppg	
18:03	110	0	4.2	10	CEMENT	Batch-up & pump 50 sx Class G @ 15.8 ppg	
18:10	0	0	0	0	N/A	Drop plug	
18:16	77	0	7.2	56	CT-3C	Displace	
18:27	224	0	7.2	7	CT-3C	Caught cement	
18:28	195	0	6.2	7	CT-3C	Rate change	
18:29	302	0	5	7	CT-3C	Rate change	
18:31	349	0	2.5	8	CT-3C	Rate change	

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PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4148 PSI
—	—	—	—	—	—	CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
18:33	519	0	2.5	85	CT-3C	Bump plug	
18:33	2750	0	0	0	N/A	Plug down @ 85 bbls	
18:40	0	0	0	0	N/A	Pre-rig down safety meeting	
<b>BUMPED PLUG</b>	<b>PSI TO BUMP PLUG</b>	<b>TEST FLOAT EQUIP.</b>	<b>BBL.CMT RETURNS/ REVERSED</b>	<b>TOTAL BBL. PUMPED</b>	<b>PSI LEFT ON CSG</b>	<b>SPOT TOP OUT CEMENT</b>	<b>Service Supervisor Signature:</b>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	519	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	519	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	